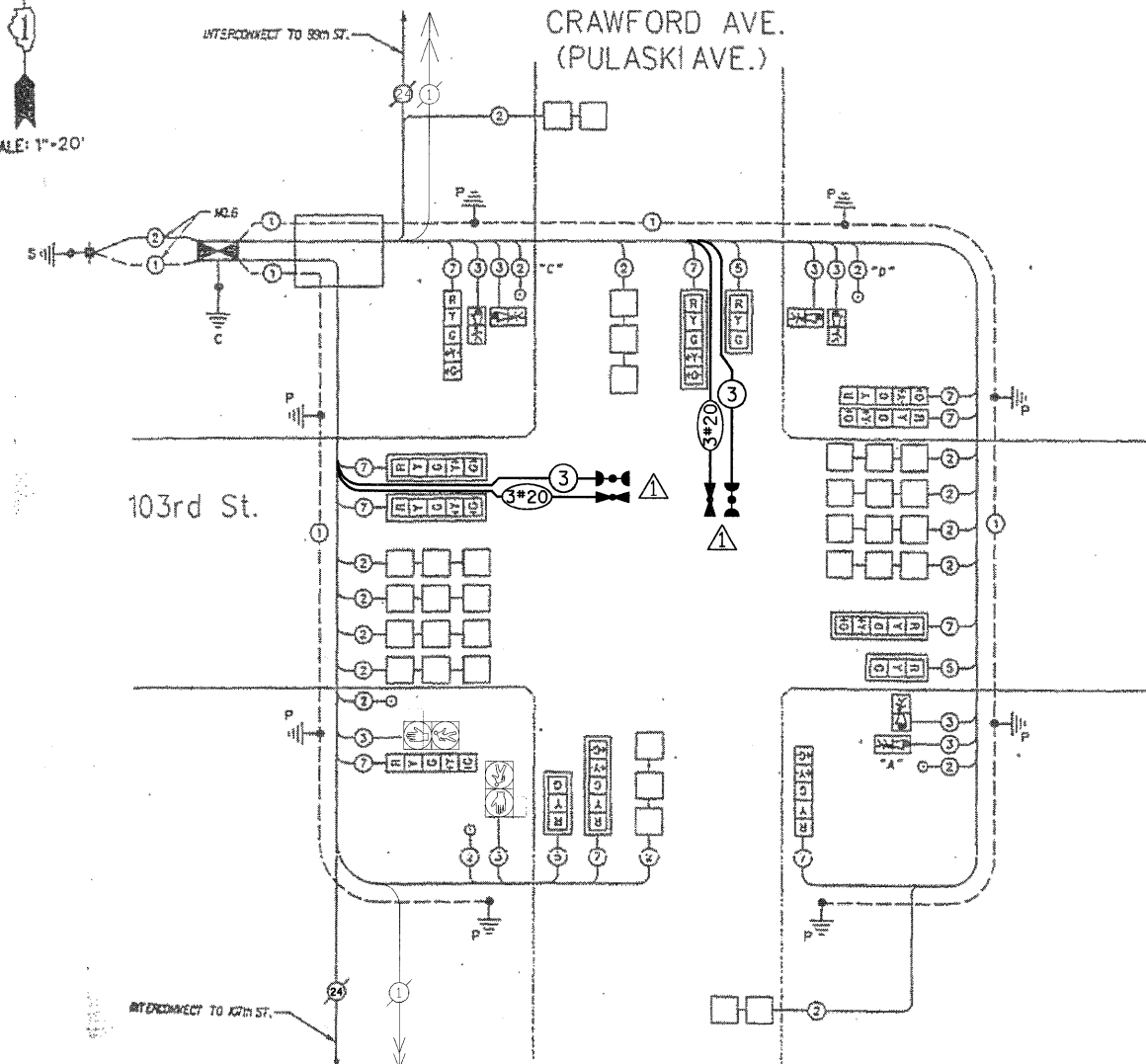


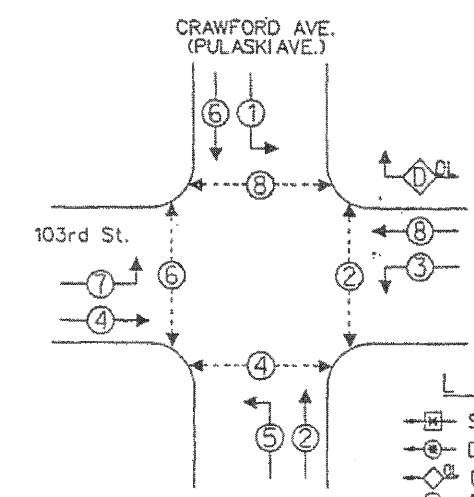
CABLE PLAN



CABLE PLAN LEGEND

- | | | |
|--|--|---|
| | | 8\" (200MM) TRAFFIC SIGNAL SECTION |
| | | 12\" (300MM) TRAFFIC SIGNAL SECTION |
| | | 12\" (300MM) PEDESTRIAN SIGNAL SECTION |
| | | 12\" (300MM) PEDESTRIAN SIGNAL SECTION |
| | | CONTROLLER CABINET |
| | | SERVICE INSTALLATION |
| | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | MAGNETIC DETECTOR |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | CONFIRMATION BEACON |
| | | PUSHBUTTON DETECTOR |
| | | Ⓢ DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED. |
| | | SIGNAL FACE WITH BACKPLATE *P* INDICATES PROGRAMMED HEAD |
| | | H/C GROUND ROD AT HANDHOLE OR CONTROLLER |
| | | P GROUND ROD AT POST OR MAST ARM POLE |
| | | S GROUND ROD AT ELECTRIC SERVICE INSTALLATION |
| | | E GROUND ROD EXISTING TO BE REUSED |
| | | --- GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER GREEN |
| | | Ⓢ NO. 62.5/125 MM 12F & SM 12F, FIBER OPTIC CABLE |
| | | Ⓢ NO. 14 IC TRACER CABLE |
| | | ⚠ EMERGENCY VEHICLE LIGHT DETECTOR |
| | | ⚠ CONFIRMATION BEACON |

EXISTING AND PROPOSED CONTROLLER SEQUENCE



LEGEND

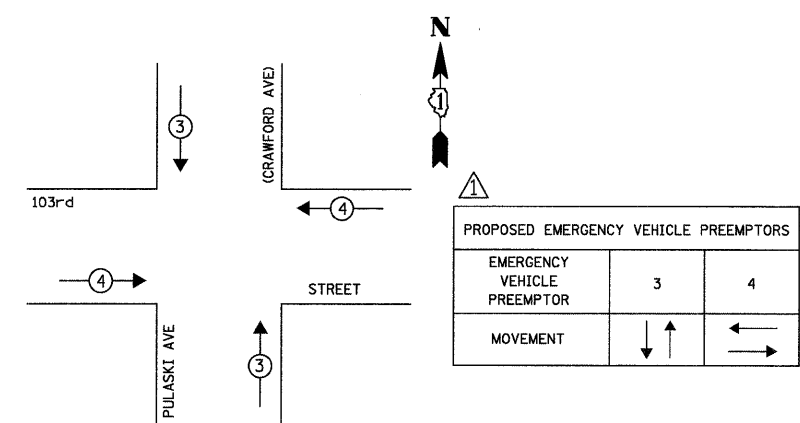
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE.

PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
0	=	8 + 1

EMERGENCY VEHICLE PREEMPTION SEQUENCE



SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	244
LIGHT DETECTOR	EACH	2
LIGHT DETECTOR AMPLIFIER	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1
ELECTRIC CABLE IN CONDUIT, NO. 20 3C, TWISTED, SHIELDED	FOOT	244
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	EACH	1

TYPE	NO. OF LAMPS	WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	13	17	0.50	110.50
(YELLOW)	13	25	0.25	81.25
(GREEN)	13	15	0.25	48.75
ARROW	20	12	0.10	24.00
PED. SIGNAL	8	25	1.00	200.00
CONTROLLER	1	100	1.00	100.00
ILLUM. SIGN	-	25	0.05	-
FLASHER		0.50		
TOTAL =				564.50

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

- NOTE:
- PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
 - PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8.
 - PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 8 AND 2

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'-L-2" (6m-H-0.6m)
E - M. ARM POLE		SIGNAL POST	2 (0.6)		
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.3)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
36" (900mm)	15 (4.6)	ELECTRIC SERVICE	1 (0.3)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.3)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE "OPTICOM" TO MATCH THE EXISTING SYSTEM AND MUNICIPAL REQUIREMENTS

INSTALLATION OF EMERGENCY VEHICLE PREEMPTION
CHRISTOPHER B. BURKE ENGINEERING LTD.
 9575 West Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

N:\OakLawn\080363\T-traffic\VP_Pulaski-103r.dgn

EDWIN HANCOCK ENGINEERING COMPANY
 CONSULTING ENGINEERS
 9933 ROOSEVELT ROAD
 WESTCHESTER, ILLINOIS 60154-2780
 (708) 865-0300
 ESTABLISHED 1911

prepared by METRO for EDWIN HANCOCK COMPANY
 METRO TRANSPORTATION GROUP, INC.
 TRANSPORTATION, PLANNING, ENGINEERING, AND DESIGN
 1500 GREENWOOD BLVD., HAWYER PARK, IL 60105
 PH# (630) 213-1000



CABLE PLAN, PHASE DESIGNATION DIAGRAM AND SCHEDULE OF QUANTITIES
 103rd STREET at PULASKI AVE.
 OAKLAWN, ILLINOIS